

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/011227

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F15D1/06 F15D1/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F15D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 11 082860 A (HIRATA JUNICHI) 26 March 1999 (1999-03-26)	1,4, 6-11,34, 36,37
A	paragraphs '0001! - '0004!, '0010!, '0012!, '0041! - '0045!, '0070!, '0091!; figures 2,8,14 -& PATENT ABSTRACTS OF JAPAN vol. 1999, no. 08, 30 June 1999 (1999-06-30) -& JP 11 082860 A 26 March 1999 (1999-03-26)	12,13, 17, 21-30,40
A	abstract ----- -/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *A* document defining the general state of the art which is not considered to be of particular relevance
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Date of the actual completion of the international search

23 December 2004

Date of mailing of the international search report

03/01/2005

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Y	column 2, lines 47-66	5-11, 37, 40
A	column 3, lines 59-65	12, 13, 17, 18, 25-30
	column 4, lines 51-60; figures 2, 6B	
X	EP 0 679 812 A (OLEINIKOV VALERY GRIGORIEVICH ; GACHECHILADZE IVAN ALEXANDROVI (RU); K) 2 November 1995 (1995-11-02)	1, 2, 4, 38
Y	cited in the application page 4, line 37 - page 6, line 11; figures 1, 2	5-11, 14-32, 36, 37, 39, 40
X	WO 97/04280 A (VIDA NIKOLAUS ; KIKNADZE GENNADY IRAKLEVICH (RU); OLEINIKOV VALERY GRI) 6 February 1997 (1997-02-06)	1, 2, 4, 6-11, 36
A	cited in the application page 1, paragraph 1	12, 13, 21-25, 28-30
	page 5, lines 18-22 page 15, lines 1-14	
X	US 5 080 367 A (LYNCH FRANCIS DES ET AL) 14 January 1992 (1992-01-14)	12, 13, 35
Y	column 5, lines 53-61	14-32, 36, 37, 39, 40
	column 7, lines 3-12 column 8, lines 21-26 column 9, lines 29, 30; figures 2, 4, 5, 8, 9, 24	
P, X	WO 2004/048871 A (VIDA NIKOLAUS) 10 June 2004 (2004-06-10)	1-13, 17, 18, 21-30, 36, 37, 39, 40
	page 1, lines 6-15 page 6, lines 17-26 page 8, lines 17-33 page 9, lines 14-17; figures 3-5	
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X A	DE 198 40 303 A (BRANDHORST INGO) 9 March 2000 (2000-03-09) abstract column 2, lines 12-22; claims 1,2; figures 1,2 -----	33 12,13, 17, 21-24, 31,32

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Information on patent family members

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